

A Note to Parents

For many children, learning math is difficult and "I hate math!" is their first response—to which many parents silently add "Me, too!" Children often see adults comfortably reading and writing, but they rarely have such models for mathematics. And math fear can be catching!

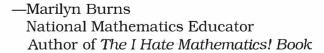
The easy-to-read stories in this *Hello, Math Reader* series were written to give children a positive introduction to mathematics, and parents a pleasurable re-acquaintance with a subject that is important to everyone's life. *Hello Math* stories make mathematical ideas accessible, interesting, and fun for children. The activities and suggestions at the end of each book provide parents with a hands-on approach to help children develop mathematical interest and confidence.

Enjoy the mathematics!

- Give your child a chance to retell the story. The more familiar children are with the story, the more they will understand its mathematical concepts.
- Use the colorful illustrations to help children "hear and see" the math at work in the story.
- Treat the math activities as games to be played for fun. Follow your child's lead. Spend time on those activities that engage your child's interest and curiosity.
- Activities, especially ones using physical materials, help make abstract mathematical ideas concrete.

Learning is a messy process. Learning about math calls for children to become immersed in lively experiences that help them make sense of mathematical concepts and symbols.

Although learning about numbers is basic to math, other ideas, such as identifying shapes and patterns, measuring, collecting and interpreting data, reasoning logically, and thinking about chance, are also important. By reading these stories and having fun with the activities, you will help your child enthusiastically say "Hello, Math," instead of "I hate math."



How Many Feet? How Many Tails?

A Book of Math Riddles

Story and Math Activities by Marilyn Burns
Illustrated by Lynn Adams



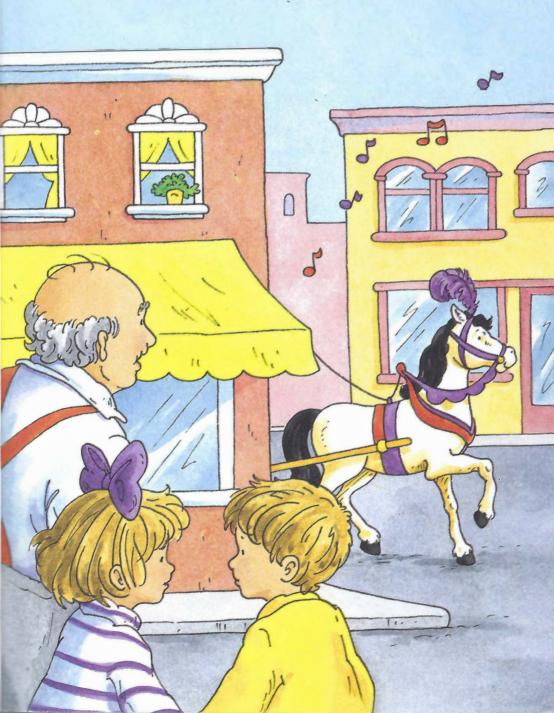
Hello Math Reader - Level 2

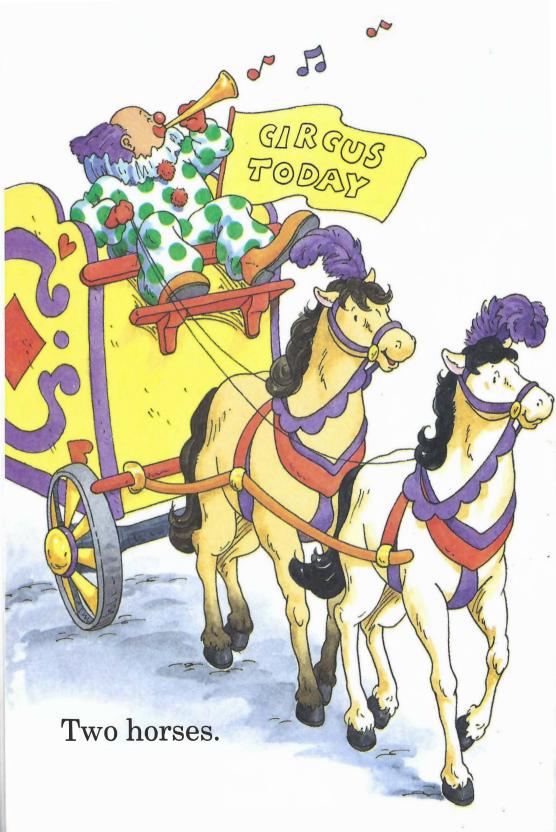


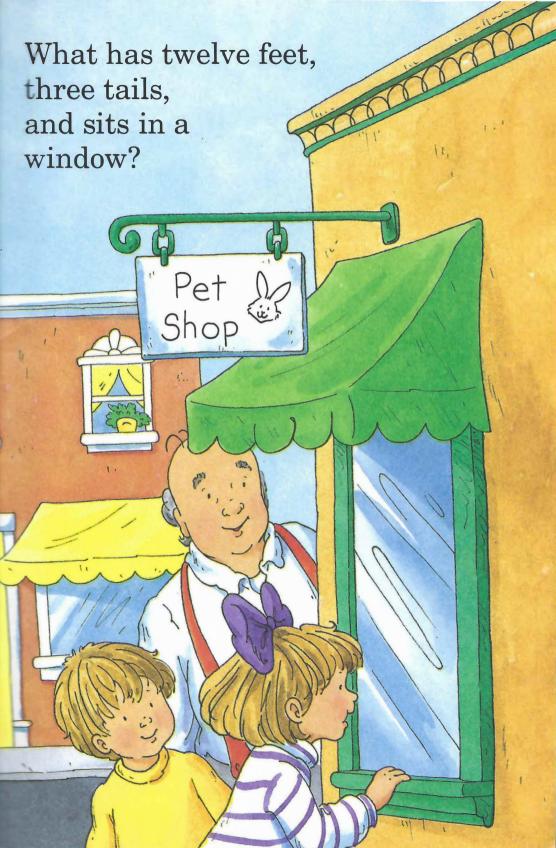


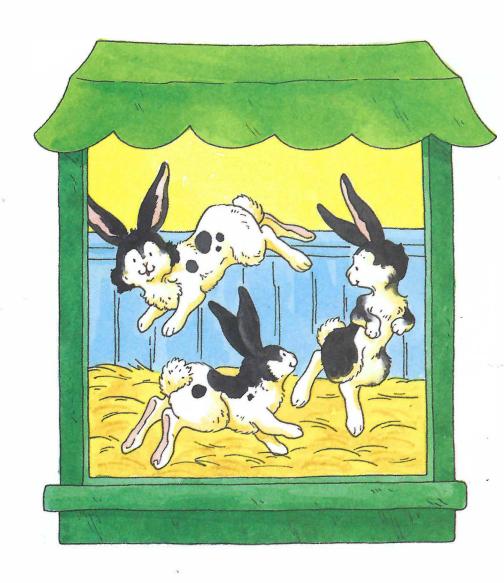
We went for a walk with Grandpa.
He likes riddles.
So do we.

What has eight feet, two tails, and pulls a wagon?

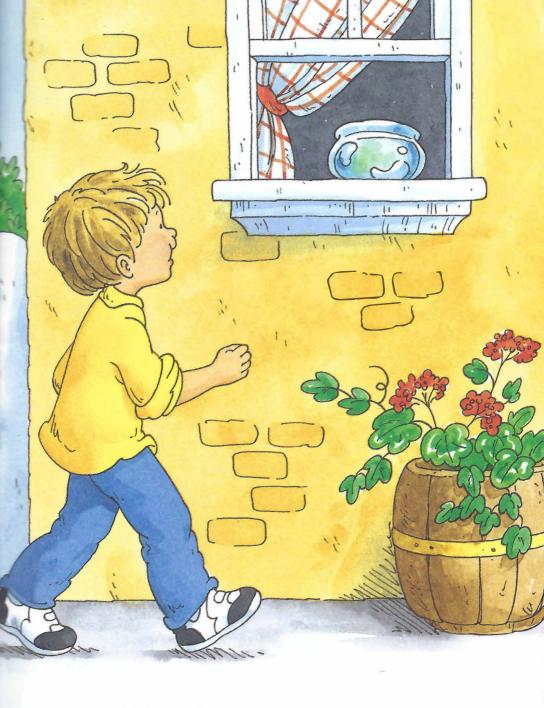




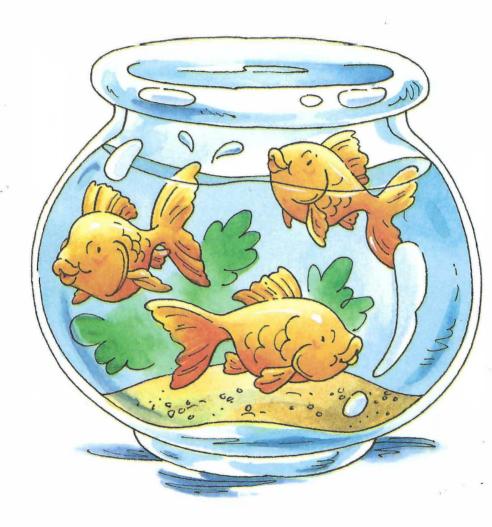




Three bunnies.

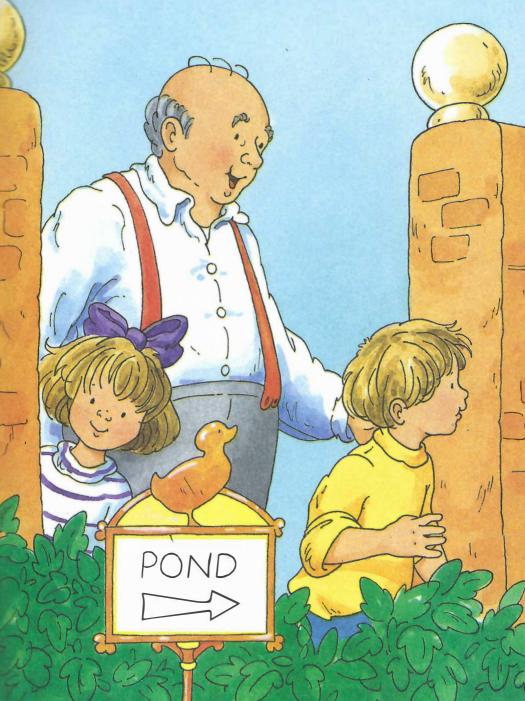


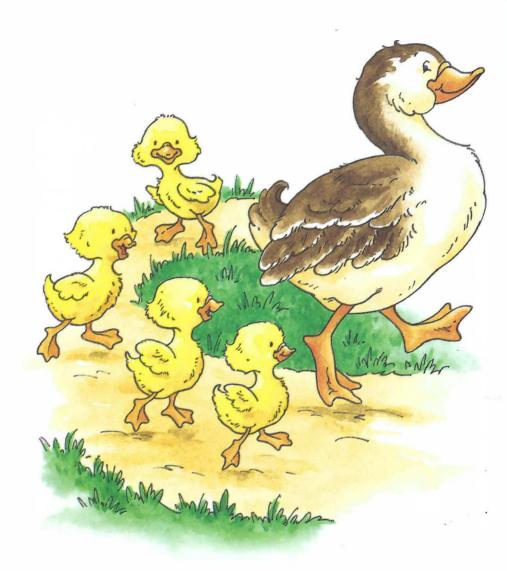
What has zero feet, three tails, and lives in a bowl?



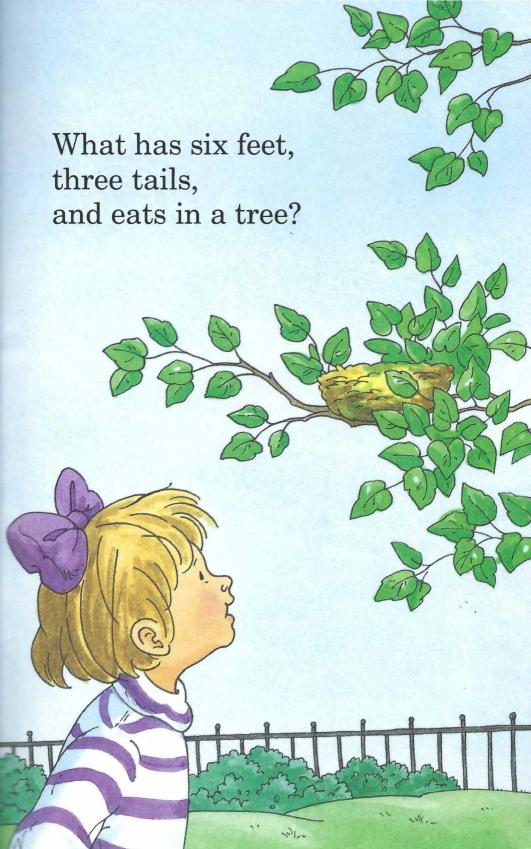
Three fish.

What has ten feet, five tails, and walks in the park?





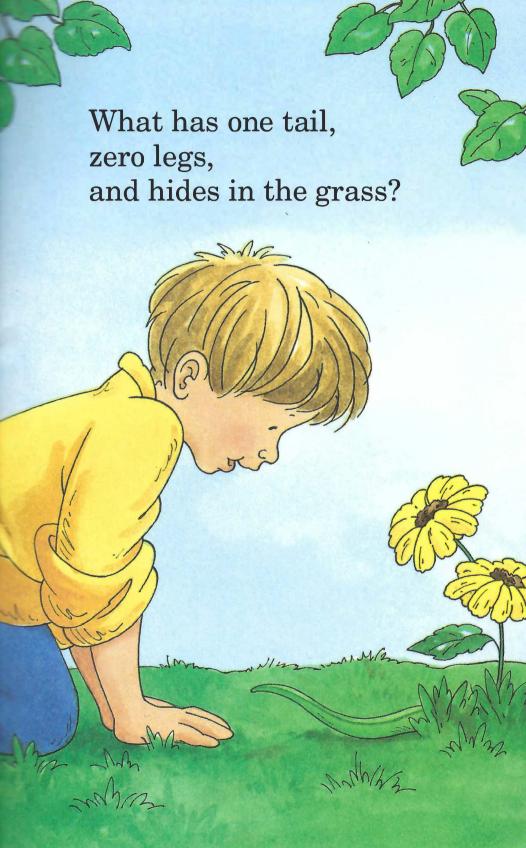
One mama duck and four ducklings.





two baby birds.

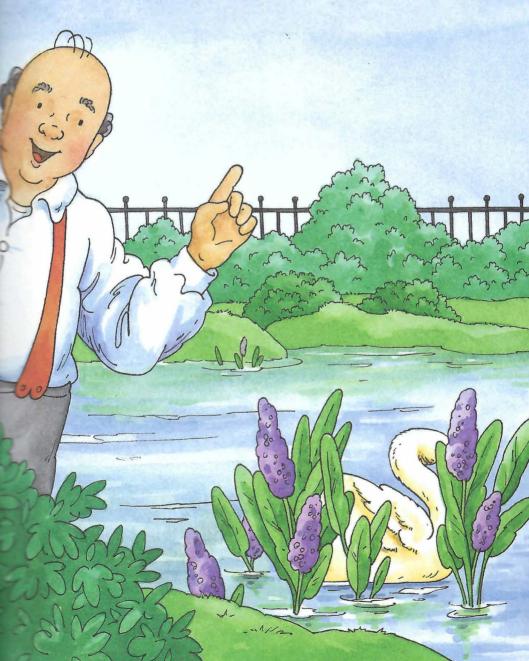






One snake.

What has four feet, two tails, and floats on the pond?



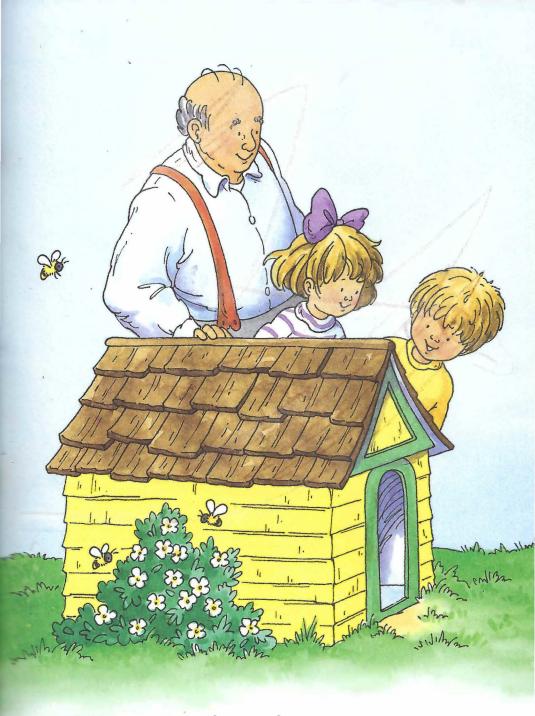




What has twelve feet, three tails, and sleeps under the porch?



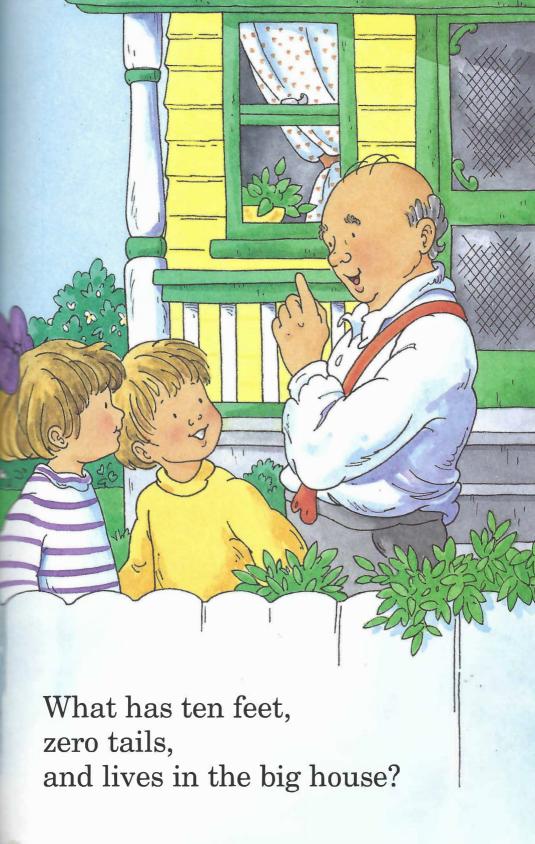
One mother cat and two kittens.

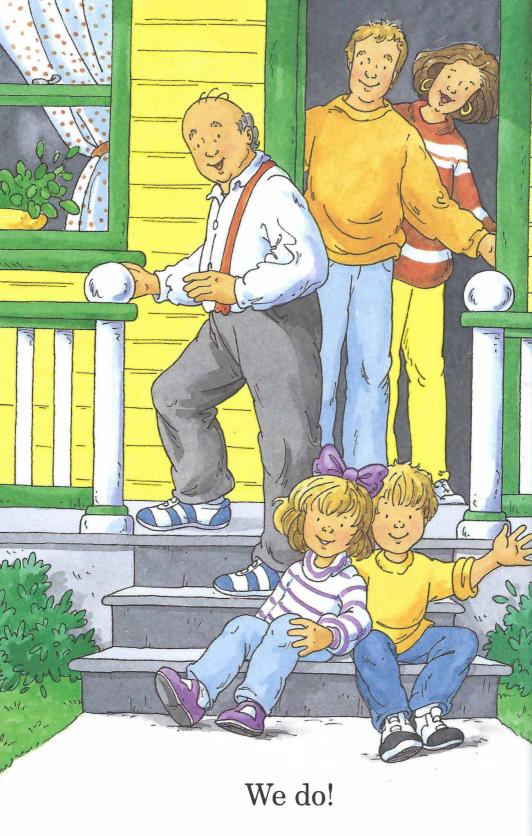


What has four feet, one tail, and lives in a little house?



One dog.





ABOUT THE ACTIVITIES

Children love riddles. Even when they know the answers to riddles, children delight in hearing them over and over again. The story and activities in this book use children's interest in riddles to give them practice with counting, and help build their understanding of numerical relationships.

For children, learning to count is a first step in learning to make sense of numbers. Typically, young children learn to say the numbers in order—one, two, three, and so on—before they learn to count objects one by one or associate each number name with a specific quantity. It's only after many counting experiences that children develop understanding of numbers and learn to use numbers to solve problems.

Children can solve all of the number riddles in the story by searching the illustrations and counting. The visual clues give children experience with seeing numerical quantities in real-world contexts. The pictures also help children become more flexible in using numbers by showing them how numbers relate to one another. The answer to each riddle is provided, so children only have to turn the page to find the solution or confirm their counting.

The activity directions are written for you to read along with your child. Children may enjoy doing their favorite riddle activities again and again. Encourage them to do so. Or try a different activity at each reading. Be open to your child's interests, and have fun with math!

-Marilyn Burns

You'll find tips and suggestions for guiding the activities whenever you see a box like this!

Retelling the Story

At the beginning of the story, Grandpa saw two horses pulling a wagon. He counted eight feet and two tails. Count the horses' feet and tails to see if you get the same numbers as Grandpa did.

Next, the girl saw three bunnies in a store window. Count to find out if you see twelve feet and three tails.

The boy saw three fish in a fishbowl. Count to be sure there are zero feet and three tails.

Count through the rest of the book to check the number of feet and tails on each page.





In Your House

How many feet and tails will sleep at your house tonight? Make a guess. Then draw a picture and count to check.

When the boy in the story tells the riddle about the snake, he uses the word "zero." This may be a new word for your child, but using it in context is the best way for your child to become familiar and comfortable with it. You might want to play a game with your child: What do we have zero of in our house? Playing this game many times will help your child learn the meaning of zero.

Toy Count

How many feet and tails does each of your toys have?



Your child will most likely reach for toys that have feet or tails—stuffed animals, toy soldiers, dolls, and so on. Asking them about toys that don't have any feet or tails—balls, cars, trucks, and so on—gives you a way to reinforce the idea of zero.

Toy Riddle Game

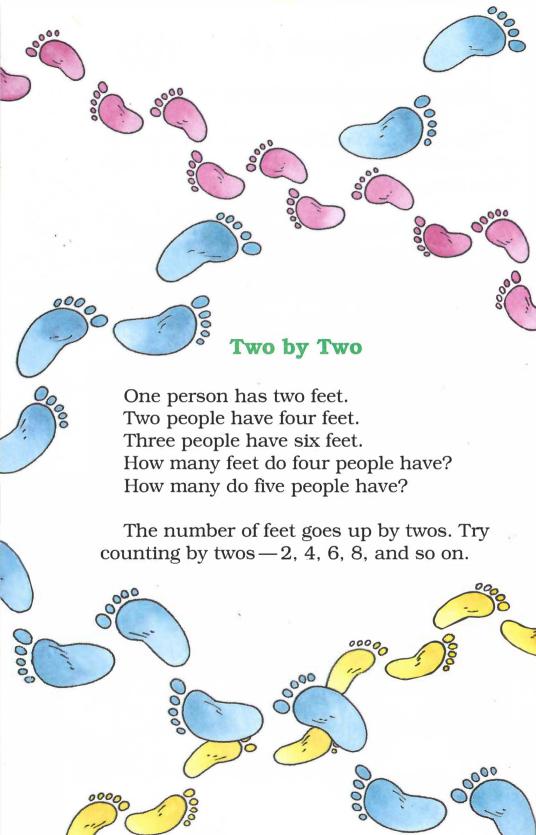
Play this riddle game with another person.

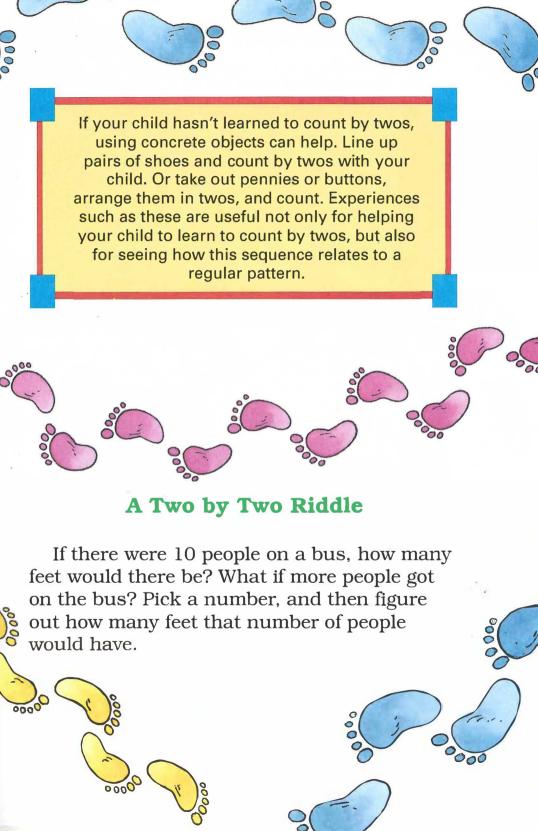
Think about two of your toys. Tell the other person how many feet and tails your two toys have altogether.

Now the other person guesses which toys you are thinking about. (The person guessing may pick the wrong toys, but they may have the same number of feet and tails as in your riddle! How can this happen?)

Take turns so you each have a chance to guess.

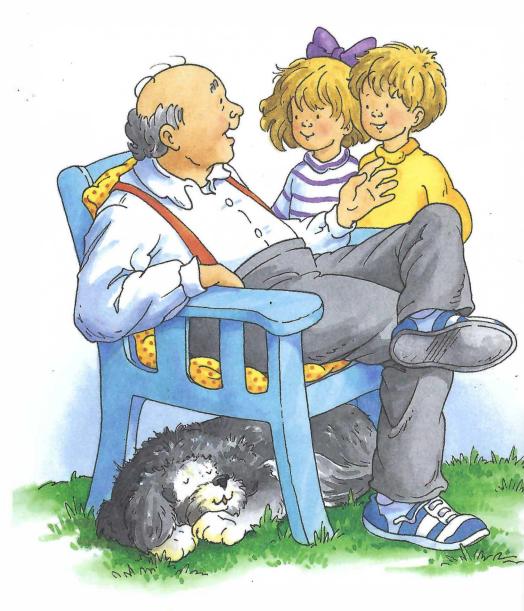


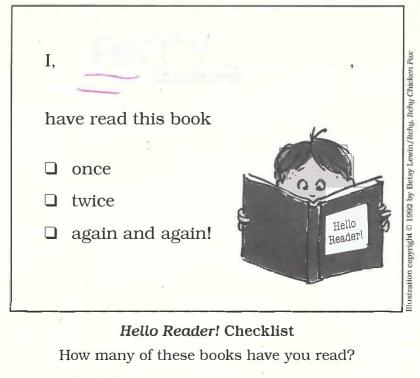




Grandpa's Riddle

Grandpa said he grew up in a house where there were 12 feet and one tail. Who could have lived with Grandpa? How many different answers can you think of?





Level 1 (Preschool-Grade 1)

- ☐ THE BUNNY HOP
- ☐ "BUZZ." SAID THE BEE

FIRST-GRADE FRIENDS

- ☐ THE CLASSROOM PET
- ☐ THE GYM DAY WINNER
- ☐ THE LUNCH BOX SURPRISE
- ☐ FOOTPRINTS IN THE SNOW
- ☐ HERE COMES THE SNOW
- ☐ I AM WATER
- ☐ I'M A SEED
- ☐ ITCHY, ITCHY CHICKEN POX

- ☐ MONKEY SEE, MONKEY DO
- ☐ MY DOG TALKS
- ☐ MY TOOTH IS ABOUT TO FALL OUT
- □ PIZZA PARTY!
- □ SOCCER GAME!
- ☐ TEDDY BEAR FOR SALE
- ☐ THAT'S NOT SANTA!
- ☐ WE PLAY ON A RAINY DAY
- ☐ "WHAT IS THAT?" SAID THE CAT
- ☐ WILLIE'S WONDERFUL PET

Level 2 (Kindergarten-Grade 2)

- ☐ THE 100TH DAY OF SCHOOL
- ☐ ALL TUTUS SHOULD BE PINK
- ☐ BEST FRIENDS WEAR PINK TUTUS
- ☐ FRAIDY CATS
- ☐ GREAT SNAKES!
- ☐ HICCUPS FOR ELEPHANT
- KENNY AND THE LITTLE KICKERS
- MIGHTY SPIDERS!

- ☐ MORE SPAGHETTI, I SAY!
- □ N-O SPELLS NO!
- □ ROLLER SKATES!
- ☐ THE SWORD IN THE STONE
- ☐ TWO CRAZY PIGS
- □ WAKE ME IN SPRING
- ☐ THE WRONG-WAY RABBIT

There are more great books on the inside back cover!

THE BLIN	ND MEN AND THE ELEPHANT	☐ THE POPCORN SHOP	
A BOY NAMED BOOMER		☐ SHE SELLS SEASHELLS	
ENDANG:	ERED ANIMALS	☐ THAT FAT HAT	
THE FRO	G PRINCE	☐ WHO'S AFRAID OF THE BIG,	
A GIRL N	AMED HELEN KELLER	BAD BULLY?	
□ HARRY H	IATES SHOPPING	☐ THE WITCH GOES TO SCHOOL	
MONSTE	R MANNERS		
Level 4 (Gr	ades 2 & 3)		
ARMIES (OF ANTS	☐ THE MYSTERY OF THE	
A BOOK ABOUT YOUR SKELETON		MISSING DOG	
BUDDY: 7	THE FIRST SEEING EYE DOG	☐ THE SCHOOLYARD MYSTERY	
DANCING WITH MANATEES		☐ THE SNACK ATTACK MYSTERY	
FINDING THE TITANIC		☐ LISTENING TO WHALES SING	
FIVE FUNNY FRIGHTS		☐ LITTLE HAWK'S NEW NAME	
GREAT BLACK HEROES		☐ TEACH US, AMELIA BEDELIA	
☐ FIVE B	BRAVE EXPLORERS	☐ THREE SMART PALS	
☐ FIVE N	IOTABLE INVENTORS	☐ WHEN THE GIANTS CAME TO TOWN	
NVISIBLE INC.		WILD WEATHER	
☐ THE CREEPY COMPUTER		☐ HURRICANES!	
MYSTE	ERY	☐ TORNADOES!	
	Hello Math! Great stori	es that teach math!	
	Level 1		
	□ MONSTER MATH		
	Level 2		
	☐ THE SILLY STORY OF GOLDIE LOCKS AND		
	THE THREE SQUARES	Van	
	☐ SLOWER THAN A SNAIL		
	☐ STAY IN LINE		
	Level 3		
	☐ THE BIGGEST FISH		
	☐ EVEN STEVEN AND ODD	TODD	
	☐ A QUARTER FROM THE TOOTH FAIRY		
	Level 4		
	D HOW MILOUIS THAT CHIM	JEA DIC IN THE WINDOWS	

Level 3 (Grades 1 & 2)



How to Choose a Hello Math Reader			
Preschool-Grade 1	Ages 3-6		
Kindergarten-Grade 2	Ages 5-7		
Grades 1 & 2	Ages 6-8		
Grades 2 & 3	Ages 7-9		
	Preschool-Grade 1 Kindergarten-Grade 2 Grades 1 & 2		

Hello, Parent!

Hello Math books have been designed —

- for parents to read to children
- for children to read to parents
- for parents and children to enjoy math

— to make your child more comfortable with math.

Hello Math stories combine the right reading level with math concepts appropriate for your child's age. A letter from a mathematics education specialist gives you valuable advice on how to read with your child and how to explore the book's math concepts. And the activities and games at the back of the book provide lots of opportunities to make math fun!

"Learning about math calls for children to become immersed in lively experiences!"

— Marilyn Burns, Author of The I Hate Mathematics! Book



